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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/980,824	03/14/2002	Gerd Geisslinger	016915-0252	3370
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FOLEY AND LARDNER SUITE 500 3000 K STREET NW			EXAMINER	
			KWON, BRIAN YONG S	
WASHINGTO	N, DC 20007		ART UNIT	PAPER NUMBER
			1614	7
			DATE MAILED: 06/12/2003	/

Please find below and/or attached an Office communication concerning this application or proceeding.

Application N . Applicant(s)					
CEICSLINGED ET AL					
Office Action Summary 09/980,824 GEISSLINGER ET AL.					
Examiner Act office					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address -					
Peri d for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status	tion.				
1) Responsive to communication(s) filed on 14 March 2002.					
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-9</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9) The specification is objected to by the Examiner.					
10)☑ The drawing(s) filed on 刘仲(o)-is/are: a)□ accepted or b)☑ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional applic	ation).				
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.4. 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:	_ ·				

DETAILED ACTION

Status of Application

By Preliminary Amendment filed on March 14, 2002, claims 3-9 have been amended.
 Claims 1-9 are currently pending for prosecution on the merits.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 1-9 provide for the use of verapamil or verapamil derivatives, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.
- 4. Claims 5 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 5 and 9, the phrase "e.g." renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

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A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 5 recites the broad recitation "the progress of the disease", and the claim also recites "e.g., by inhibition of the tumour progression or the metastasis formation" which is the narrower statement of the range/limitation. Similarly, claim 9 recites the broad recitation "tissue-specific substances", and the claim also recites "e.g., antibodies, proteins, liposomes" which is the narrower statement of the range/limitation.

5. Claims 3-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites that the claimed R-enantiomers are "used in pure form or, in comparison with the racemate, in enriched form". "pure form" or "enriched form" is qualitative terminology, which cannot be understood clearly without its definition in the specification. However, the instant specification fails to point out for the reader to determine what are the claimed ranges or

percentages of enantiomers present in the claimed composition. Thus, claim 3 is considered vague and indefinite.

Claim 4 recites that the claimed glucuronidase inhibitor is in "normally liberating or controlled liberating form". It is not clear what is meant by that since the specification fails to define its terminology. Applicant is requested to clarify.

Claim Rejections - 35 USC § 101

6. Claims 1-9 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example Ex parte Dunki, 153 USPQ 678 (Bd.App. 1967) and Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

For the purpose of examination, claims 1-9 are interpreted as "a method of inhibiting human tissue glucuronidase".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jouvin-Marche et al. (Eur. J. Pharmacol., 1983, 89, 19-26).

Jouvin-Marche teaches or suggests that Ca2+ antagonists, namely nifedipine, is useful in inhibiting the secretion of PAF-acether, SRS and <u>beta-glucurinidase</u> in human neutrophils (abstract; page 20, column 1, lines 11-15; TABLE 2; page 24, column 1, lines 14-21 and column 2, lines 5-15). The reference teaches or suggests that deprivation of extracellular Ca2+ by calcium channel antagonists inhibit the secretion of beta-glucurinidase along with PAF-acether and SRS in human neutrophils study (page 24, column 2, lines 10-15). Although the reference

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mentions verapamil as a Ca2+ antagonist (page 24, line 1 and line 26), the reference does not specifically teach the use of verapamil or its R-enantiomer in inhibiting beta-glucurinidase.

However, one having ordinary skill in the art would have expected that the secretion of beta-glucurinidase is closely related to the extracellular Ca2+ and the inhibition of Ca2+ uptake by Ca2+ antagonists results in inhibition of beta-glucurinidase. It would have been prima facie obvious to the skilled artisan at the time of the invention was made to employ verapamil for inhibiting human tissue beta-glucuridinase since the skilled artisan would have expected that verapamil would have similar activities as nifedipine.

With respect to the use of the R-enantiomers, the individual isomers are obvious variants over the corresponding racemate because of their presence in the racemate. It would further be expected that one of the isomers would be more active than the other, absent evidence to the contrary.

Conclusion

- 8. No Claim is allowed.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Kwon whose telephone number is (703) 308-5377. The examiner can normally be reached Tuesday through Friday from 9:00 am to 7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marianne Seidel, can be reached on (703) 308-4725. The fax number for this Group is (703) 308-4556.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

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Brian Kwon

ZOHREH FAY PRIMARY EXAMINER GROUP 1600

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